Title: A High Impedance State for Digital Subscriber Line Transceivers On Copper Twisted Pairs Appears 1 Jagadish Kumar, et al. J. 09/771,113

Attorney Docket No.: 7416/78222 - PPA2

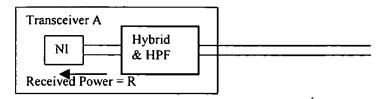


Figure 1: Single Transceiver on a Line

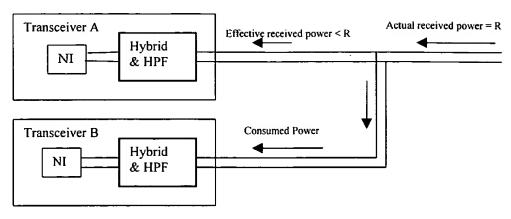


Figure 2: Attenuation of the Received Signal

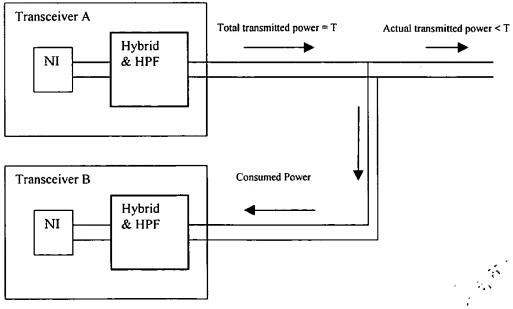


Figure 3: Attenuation of Transmitted Signal

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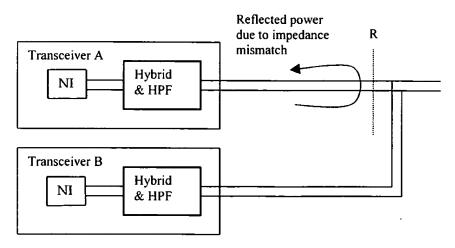


Figure 4: Echo of the Transmitted Signal

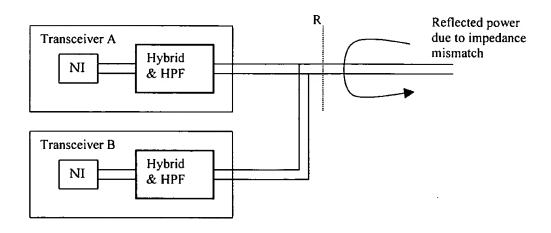


Figure 5: Echo of the Received Signal

Legend

NI: Normal Impedance

HI: High Impedance

HPF: High Pass Filter



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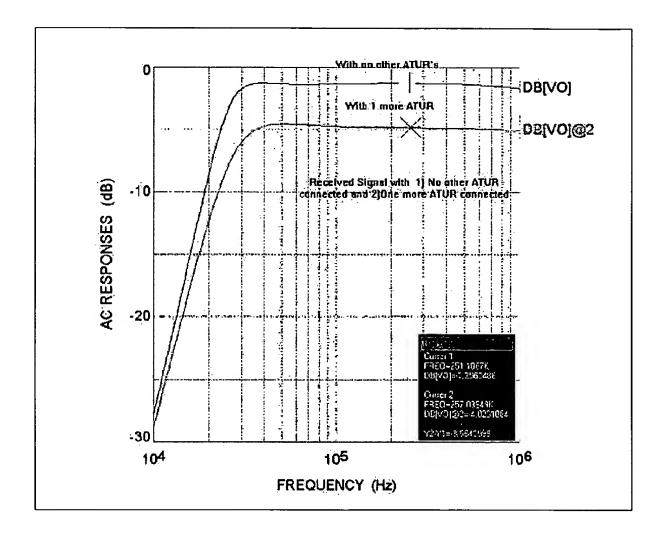


Figure 6: Reduction in the Signal Received by the ATU-R

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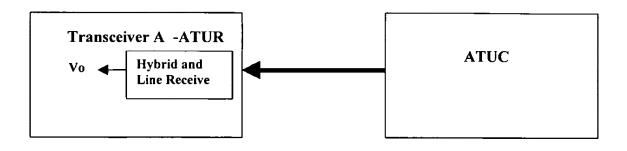


Figure 6a: Signal received when only one ATU-R is connected

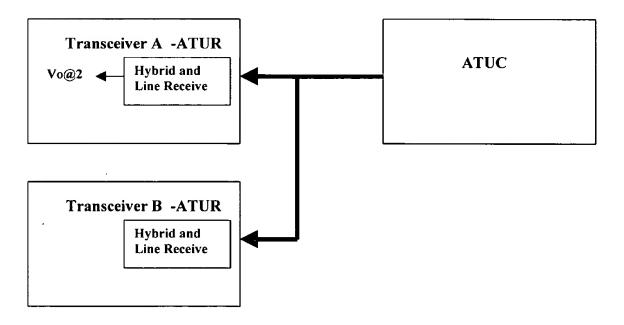


Figure 6b: Signal received when an additional ATU-R is connected to the same line

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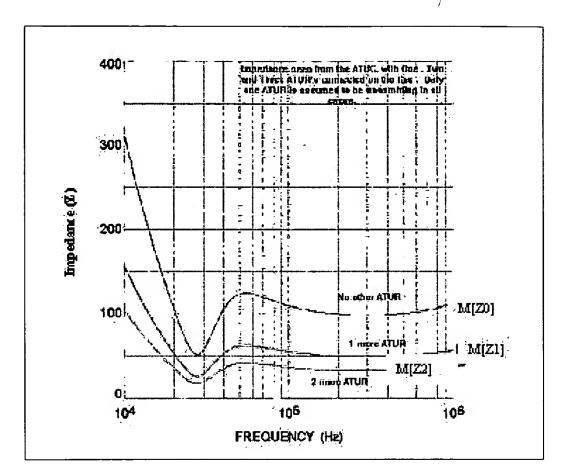


Figure 7: Reduction in the Effective Impedance with Multiple ATU-Rs

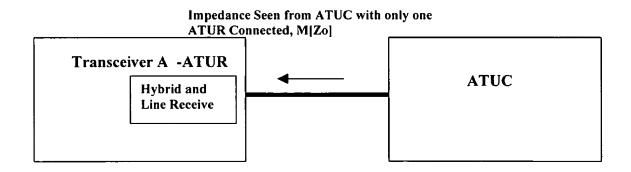


Figure 7a: Impedance seen by the ATU-C with one ATU-R connected to the line

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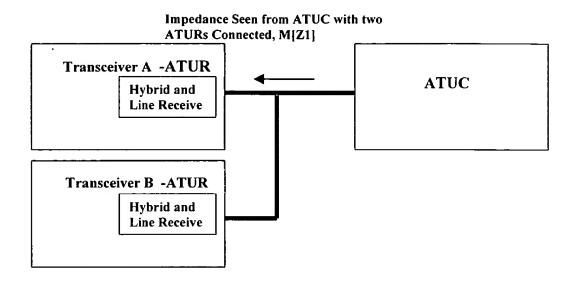


Figure 7b: Impedance seen by the ATU-C with two ATU-Rs connected to the line

Impedance Seen from ATUC with three ATURs Connected, M[Z2]

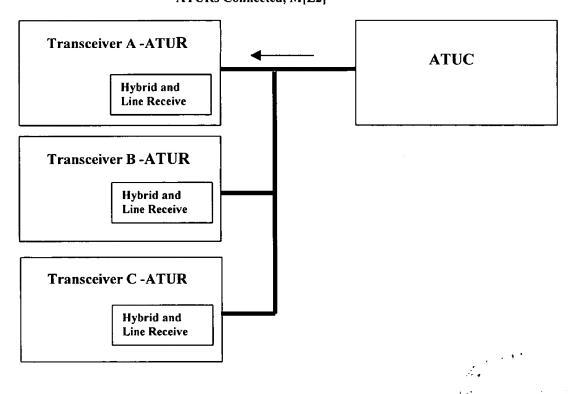


Figure7c: Impedance seen by the ATU-C with three ATU-Rs connected to the line

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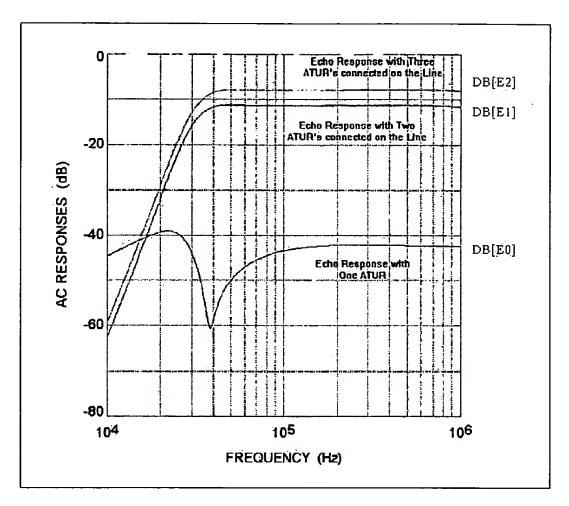


Figure 8: Increase in the Echo at the ATU-R due to other ATU-Rs

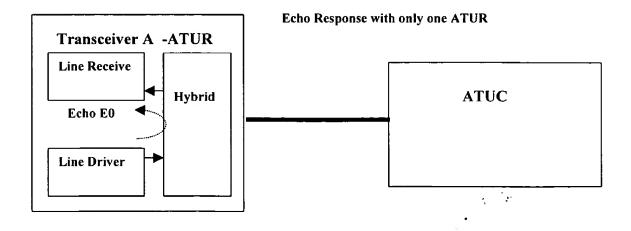


Figure 8a

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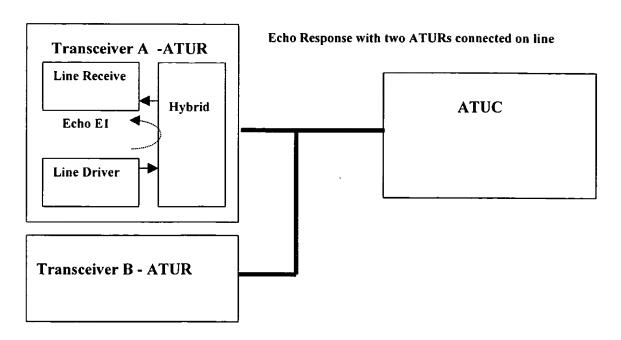


Figure 8b

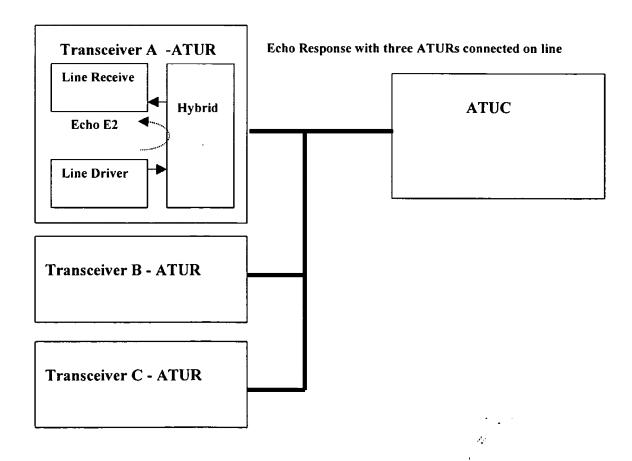


Figure 8c

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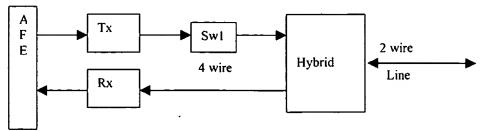


Figure 9: Implementation 1

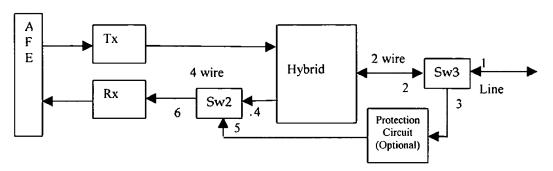


Figure 10: Implementation 2

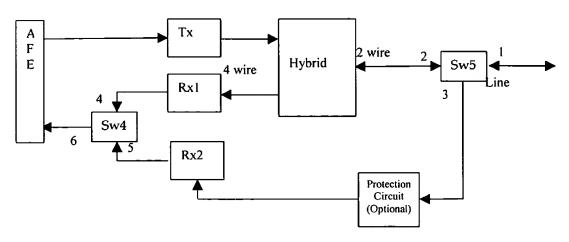


Figure 11: Implementation 3

Legend: Tx: Transmitter, Rx: Receiver, Sw: Switch, AFE: Analog Front End.

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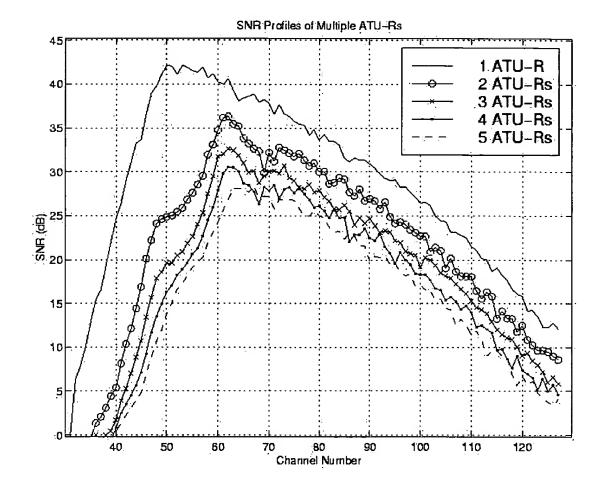


Figure 12: Simulation results of SNR profiles for multiple ATU-Rs



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